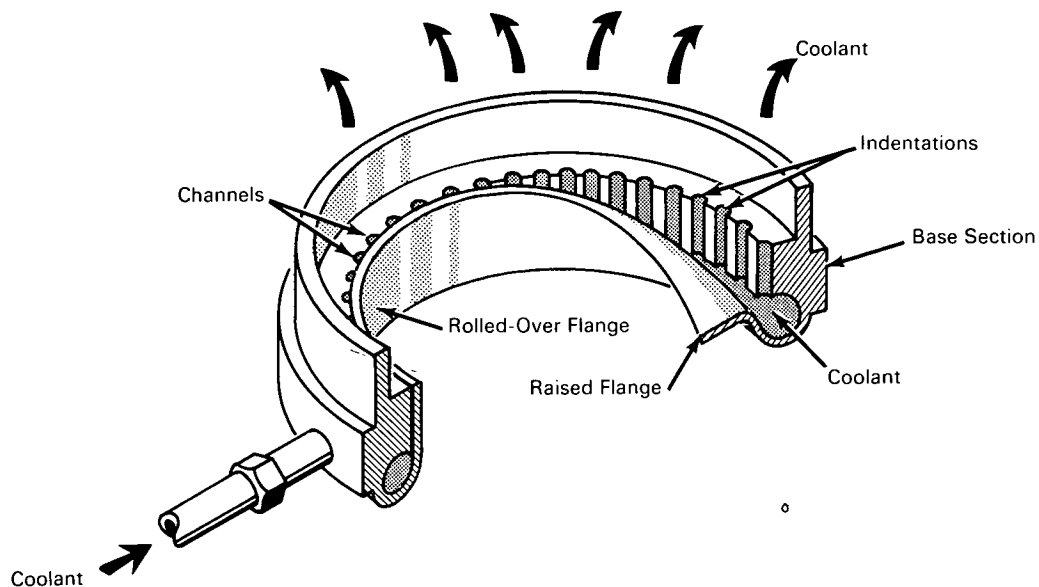


# NASA TECH BRIEF



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## Radial Coolant Channels Fabricated by Simplified Method



### The problem:

To devise a simplified method of fabricating radial channels for distributing a coolant over the inner wall of a circular section. Conventional fabrication methods employ numerous small diameter tubes which require a large amount of welding to a base section and careful inspection to ensure reliable bonds.

### The solution:

Form the channels by cold-rolling indentations on the inside circumference of the base section and cover the indentations with a rolled-over flange.

### How it's done:

The base section is fabricated with a raised flange, the required number of indentations are rolled into the base section, and the flange is rolled over them to form the coolant distribution channels.

### Note:

Inquiries concerning this innovation may be directed to:

Technology Utilization Officer  
AEC-NASA Space Nuclear Propulsion  
Office  
U.S. Atomic Energy Commission  
Washington, D.C. 20545  
Reference: B66-10267

### Patent status:

No patent action is contemplated by NASA.

Source: A. Freeman  
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